

# APPLICATION BRIEF

## SAFETY & COMPLIANCE

## Hazardous Duty Wide-Area Fluorescent Light from Molex for Class I, Division 2 Environments and Suitable for Zone II Applications

**Provides task lighting for maintenance and repair operations and wide-area light in potentially hazardous locations.**

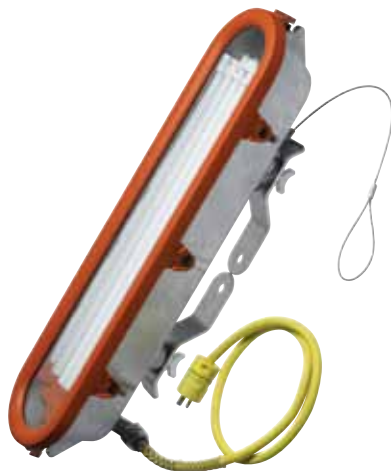
**Business Challenge:** Ignitable concentrations of flammable gases, vapors or liquids can pose a serious threat to job-site safety. Workers in the petrochemical, pulp and paper, shipyards, utility and water waste treatment industries often face job hazards that, if left unchecked, may harm personal safety, security and productivity.

Proper lighting plays an important role in hazardous locations – Task lighting designed strictly for use in non-hazardous locations often migrates into work areas where only hazardous duty rated equipment should be utilized per code and company policy. Work lights in this environment are subject to significant on-the-job abuse, which requires frequent and costly repair and/or replacement.

In addition, light fixtures are often designed without any consideration for expected maintenance of light bulbs and ballasts. They can be difficult to mount and adjust at times, requiring additional tools or another person.

And, ballasts tend to burn out in high temperatures and not operate in extremely cold temperatures.

**Solution:** The Woodhead Wide-Area Fluorescent Light for Hazardous Locations is designed to operate safely in hazardous environments while



delivering high-output light in an extremely rugged and durable fixture. Our fixture provides task lighting for maintenance and repair operations and wide-area light in potentially hazardous locations. The enclosure is constructed of sturdy, cast aluminum and is covered with a heavy-duty rubber-polycarbonate lens assembly that creates an impact-resistant seal, while keeping out moisture and contaminants.

The twin 55-Watt fluorescent lamps are shock-mounted in front of a specular aluminum reflector that produces light equivalent to many higher-wattage units while providing superior lamp life from impact, vibration and overheating. Features include:

- Flexible mounting designs for portable and temporary configurations; can safely illuminate and operate in Class 1, Division 2 hazardous and non-hazardous locations. Proper illumination reduces or eliminates shadows and improves overall visibility which significantly reduces the chance for human error and worker injury.
- Fixture can withstand vibration and rough handling. Cords are protected from excessive bending and pulling. Lamps are less likely to break and if the lens assembly is damaged, it can be easily replaced in the field. This reduces maintenance repair and replacement costs.
- The lightbulbs and ballast are easily accessed via the code required, ¼ turn screw-out, push-in fasteners and oversizing wing nut to retain the reflector. Only one ballast is needed to operate both fluorescent lamps. This allows for easy maintenance and minimal downtime.
- Preconfigured mounting brackets are standard as well as a light fixture lanyard and a lens lanyard which provides a secure hold to prevent falling hazards.

The light is certified by QPS (Quality Product Services) to Class 1 Division 2 standards. QPS is a Canadian certification body nationally recognized in Canada to properly certify and evaluate products

for safe use in many different environments and atmospheres. Equipment used in a hazardous location environment must always have proper certification and corresponding ratings and temperature class prior to use in hazardous environments.

**Benefits and ROI:** The Woodhead Wide-Area Fluorescent Light is easy to maintain and replacement parts are readily available. It can be mounted in a variety of orientations and is designed for use in extreme temperatures. It offers:

- Superior strength, durability, impact and corrosion resistance.
- Reduction of lamp breakage while producing superior light output.
- Less energy usage and simplified field repairs and maintenance.
- Safety in wet and outdoor locations with potentially ignitable gases of all groups.
- Usage in a wide range of climates.
- Adaptability with a wide range of connectors including BradPower connectors for use in Zone II Environments.



To learn more about Woodhead® electrical products and solutions, call your Molex representative today or call 1-800-225-7724 or visit [www.woodhead.com](http://www.woodhead.com)